

**In the Claims:**

Please amend claims 1, 15, 16 and 26-28 as follows:

1. (Twice Amended) A polymersome vesicle comprising a semi-permeable, thin-walled encapsulating membrane, wherein the membrane is formed in an aqueous solution, and wherein the membrane comprises one or more wholly synthetic super-amphiphilic molecules that are polymeric, having a number average molecular weight  $\geq 1400$ .

15. (Thrice Amended) The method of using the polymersome vesicle of claim 3, wherein the method comprises:

preparing the polymersome vesicle;

importing into the polymersome at least one encapsulatable material from the environment immediately surrounding the polymersome; and

transporting the polymersome and the at least one material encapsulated therein away from the surrounding environment, thereby removing it from said environment.

16. (Thrice Amended) The method of claim 15, wherein the environment is a patient, and wherein the method further comprises removing the polymersome and the at least one material encapsulated therein from the patient.

26. (Amended) The method of using the polymersome vesicle of claim 3, wherein the method comprises:

preparing the polymersome vesicle;

encapsulating therein at least one encapsulatable material;

delivering the polymersome comprising the at least one encapsulated material to a selected environment; and

releasing said encapsulated material(s) into the environment immediately surrounding the polymersome.

27. (Amended) The method of claim 26, wherein the environment is a patient, and wherein the method further comprises delivering the polymersome and the at least one material encapsulated therein to the patient, and releasing the encapsulated material therein.

28. (Amended) The method of claim 27, wherein the method further comprises releasing to the patient at least one encapsulated material, selected from the group consisting of a drug, therapeutic composition, medicament, dye, indicator, nutrient, sugar, vitamin, mineral,